



## INDUSTRIAL HYGIENE EQUIPMENT PROCEDURES

### **DRAGER ACCURO GAS DETECTOR PUMP**

2/93

#### **Objective**

To provide instruction for the use of the Drager Accuro Gas Detector Pump.

#### **Discussion**

The Drager Accuro Gas Detector Pump is a direct reading instrument for a variety of gases and vapors. The sampling and analytical error is +/- 25% . Due to the wide margin of error, if readings are within 50% of the TLV, another, more accurate method, should be selected to evaluate the exposure.

#### **Equipment**

- Drager Accuro Gas Detector Pump
- IH Sampling Notes Form
- Drager Detector Tube

#### **Procedure**

1. Perform a leak check on the pump. To do this, seal the pump with an unopened Drager tube and completely compress the bellows. The pump is sufficiently air-tight if the bellows has not expanded completely after 15 minutes . Record if unit passed or failed leak test on IH Sampling Notes form.
2. Read the instruction for the Drager tube which will be used. Note the number of pump strokes which are required and potential interference. Press the button to reset the counter.
3. Break off both tips of the Drager tube in the break-off eyelet. DO NOT use detector tubes from any other manufacturer. Check the expiration date of the tubes. Note catalog number, lot number, and expiration date of the detector tube on the IH Sampling Notes form. Do not use tubes with an expired shelf life.

4. Insert the tube in the pump head with the arrow pointing towards the pump.
- 5 Fully compress the bellows by putting the forefinger and ringfinger in the middle of the lower pump plate and squeeze.
6. The pump has pulled the required amount of air when the end-of-stroke indicator appears (white button fully raised). Repeat this process as often as specified in the instructions.
7. Evaluate the tube reading as indicated in the instructions. Remove and disposed of the detector tube. Flush the pump with a few pump strokes of clean air.
8. Record results on IH sampling notes form and submit to ES&H Section.